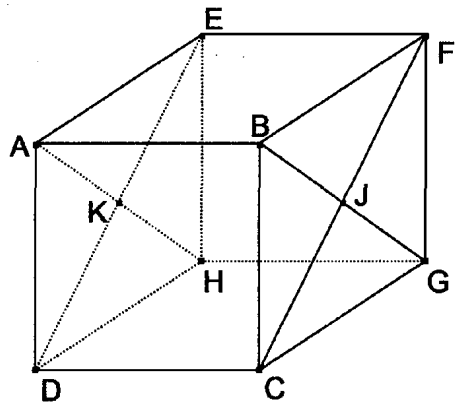
EX 18 :

K=A*H =D*E

J=B*G=C*F

1) D(0,0,0) ; C(1,0,0) ; H(0,1,0) ;A(0,0,1)

B(1,0,1) ; G(1,1,0) ;E(0,1,1) ;F(1,1,1)



$$*\overrightarrow{FE}\begin{pmatrix}-1\\0\\0\end{pmatrix} et\ \overrightarrow{FG}\begin{pmatrix}0\\0\\-1\end{pmatrix} \Rightarrow \overrightarrow{FE}\wedge\overrightarrow{FG}\begin{pmatrix}0\\-1\\0\end{pmatrix} \Rightarrow \overrightarrow{FE}\wedge\overrightarrow{FG}=-\overrightarrow{DH}=\overrightarrow{FB}$$

$$*\overrightarrow{DC}\begin{pmatrix}1\\0\\0\end{pmatrix} et\ \overrightarrow{CB}\begin{pmatrix}0\\0\\1\end{pmatrix} \Rightarrow \overrightarrow{DC}\wedge\overrightarrow{CB}\begin{pmatrix}0\\-1\\0\end{pmatrix} \Rightarrow \overrightarrow{DC}\wedge\overrightarrow{CB}=-\overrightarrow{DH}=\overrightarrow{HD}$$

$$*\overrightarrow{DB}\begin{pmatrix}1\\0\\1\end{pmatrix} et\ \overrightarrow{DC}\begin{pmatrix}0\\0\\1\end{pmatrix} \Rightarrow \overrightarrow{DB}\wedge\overrightarrow{DC}\begin{pmatrix}0\\1\\0\end{pmatrix} \Rightarrow \overrightarrow{DB}\wedge\overrightarrow{DC}=\overrightarrow{DH}$$

2) $$*\overrightarrow{DB}\begin{pmatrix}1\\0\\1\end{pmatrix} et\ \overrightarrow{AH}\begin{pmatrix}0\\1\\-1\end{pmatrix} \Rightarrow \overrightarrow{DB}\wedge\overrightarrow{AH}\begin{pmatrix}-1\\1\\1\end{pmatrix} \Rightarrow \overrightarrow{DB}\wedge\overrightarrow{DC}=\overrightarrow{CE}$$

3) $J(1,\frac{1}{2},\frac{1}{2})$

$$*\overrightarrow{AB}\begin{pmatrix}1\\0\\0\end{pmatrix} et\ \overrightarrow{AJ}\begin{pmatrix}1\\\frac{1}{2}\\-\frac{1}{2}\end{pmatrix} \Rightarrow \overrightarrow{AB}\wedge\overrightarrow{AJ}\begin{pmatrix}0\\\frac{1}{2}\\\frac{1}{2}\end{pmatrix} \Rightarrow \overrightarrow{DB}\wedge\overrightarrow{DC}=\overrightarrow{DK}$$

Qarray.tn -Aqra Blech- Qarray.tn